

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **NUCLEIC ACID ABUNDANCE DIFFERENCE SCREENING USING HIGH DENSITY OLIGONUCLEOTIDE ARRAYS** the specification of which X was filed on June 25, 1997 as Application No. 08/882,649.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119
PCT	PCT/US97/01603	22 January 1996	Yes <u>X</u> No <u> </u>
			Yes <u> </u> No <u> </u>

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below:

Application No.	Filing Date
60/010,471	1/23/96
and a continuation-in-part of provisional patent application for "Labeling of Nucleic Acids" naming Lockhart, Cronin, Lee, Tran, Matsuzaki, McGall and Barone as inventors, filed on January 9, 1997, both of which are herein incorporated by reference for all purposes	1/9/97

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date of Filing	Status
		<u> </u> Patented <u> </u> Pending <u> </u> Abandoned
		<u> </u> Patented <u> </u> Pending <u> </u> Abandoned

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Kevin L. Bastian, Reg. No. 34,774, M. Henry Heines, Reg. No. 28,219, Tom Hunter, Reg. No. 38,498, William M. Smith, Reg. No. 30,223, Eugenia Garrett-Wackowski, Reg. No. 37,330, Kenneth A. Weber, Reg. No. 31,677, Ellen Lauver Weber, Reg. No. 32,762, Joe Liebeschuetz, Reg. No. 37,505.

Send Correspondence to:

Tom Hunter, Esq.

TOWNSEND and TOWNSEND and CREW LLP

Two Embarcadero Center, 8th Floor

San Francisco, CA 94111-3834

Direct Telephone Calls to:

(Name, Reg. No., Telephone No.)

Name: Tom Hunter, Esq.

Reg. No.: 38,498

Telephone: (415) 576-0200

Full Name of Inventor 1	Last Name Lockhart	First Name David	Middle Name or Initial J.	
Residence & Citizenship	City <i>Mountain View</i> Santa Clara	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	<i>610 Mountain View Ave.</i> Post Office Address 480 Oak Grove Drive, Apt. 205	City <i>Mountain View</i> Santa Clara	State/Country California	Zip Code 95051 <i>94041</i>
Full Name of Inventor 2	Last Name Chee	First Name Mark	Middle Name or Initial	
Residence & Citizenship	City Palo Alto	State/Foreign Country California	Country of Citizenship Australia	
Post Office Address	Post Office Address 3199 Waverly Street	City Palo Alto	State/Country California	Zip Code 94306
Full Name of Inventor 3	Last Name Gunderson	First Name Kevin	Middle Name or Initial	
Residence & Citizenship	City Palo Alto <i>Santa Clara</i>	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address <i>1188 Inverness</i> 1090 Tanland Dr., #103	City Palo Alto	State/Country California	Zip Code <i>95050</i> 94303-3749
Full Name of Inventor 4	Last Name Chaoqiang	First Name Lai	Middle Name or Initial	
Residence & Citizenship	City Santa Clara <i>Sunnyvale</i>	State/Foreign Country California	Country of Citizenship China	
Post Office Address	Post Office Address <i>1066 Blazingwood Dr.</i> 1901 Halford Avenue, #230 <i>C.L.</i>	City Santa Clara <i>Sunnyvale</i>	State/Country California	Zip Code <i>C.L.</i> 95051-94089
Full Name of Inventor 5	Last Name Wodicka	First Name Lisa	Middle Name or Initial	
Residence & Citizenship	City Santa Clara	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 3770 Flora Vista, #603	City Santa Clara	State/Country California	Zip Code 95051
Full Name of Inventor 6	Last Name Cronin	First Name Maureen	Middle Name or Initial T.	
Residence & Citizenship	City Los Altos	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 771 Anderson Drive	City Los Altos	State/Country California	Zip Code 94024

Full Name of Inventor 7	Last Name Lee	First Name Danny	Middle Name or Initial	
Residence & Citizenship	City San Jose	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 5520 Le Franc Drive	City San Jose	State/Country California	Zip Code 95118
Full Name of Inventor 8	Last Name Tran	First Name Huu	Middle Name or Initial M.	
Residence & Citizenship	City San Jose Milpitas HMT	State/Foreign Country California	Country of Citizenship USA	
Post Office Address HMT	Post Office Address 1148 Edsall Dr #3 3697 Cape Cod Court, #1 HMT	City San Jose Milpitas HMT	State/Country California	Zip Code HMT 95117 95035
Full Name of Inventor 9	Last Name Matsuzaki	First Name Hajime	Middle Name or Initial	
Residence & Citizenship	City Palo Alto	State/Foreign Country California	Country of Citizenship HMT USA Japan	
Post Office Address	Post Office Address 562 Kendall Avenue, #26	City Palo Alto	State/Country California	Zip Code 94306
Full Name of Inventor 10	Last Name McGall	First Name Glenn	Middle Name or Initial H.	
Residence & Citizenship	City Mt. View	State/Foreign Country California	Country of Citizenship Canada	
Post Office Address	Post Office Address 750 North Shoreline	City Mt. View	State/Country California	Zip Code 94041
Full Name of Inventor 11	Last Name Barone	First Name Anthony	Middle Name or Initial D.	
Residence & Citizenship	City San Jose	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 2118 Ellen Avenue	City San Jose	State/Country California	Zip Code 95125

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1 <i>David J. Lockhart</i> David J. Lockhart	Signature of Inventor 2 Mark Chee	Signature of Inventor 3 <i>Kevin Gunderson</i> Kevin Gunderson
Date 4/6/98	Date	Date 3/26/98
Signature of Inventor 4 <i>Chaoqiang Lai</i> Chaoqiang Lai	Signature of Inventor 5 <i>Lisa Wodicka</i> Lisa Wodicka	Signature of Inventor 6 Maureen T. Cronin
Date 4-10-98	Date 4/7/98	Date
Signature of Inventor 7 Danny Lee	Signature of Inventor 8 <i>Huu M. Tran</i> Huu M. Tran	Signature of Inventor 9 <i>Hajime Matsuzaki</i> Hajime Matsuzaki
Date	Date 4/3/98	Date 4-3-98
Signature of Inventor 10 <i>Glenn H. McGall</i> Glenn H. McGall	Signature of Inventor 11 <i>Anthony Di Barone</i> Anthony Di Barone	
Date 04/02/98	Date 4/06/98	

151469

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **NUCLEIC ACID ABUNDANCE DIFFERENCE SCREENING USING HIGH DENSITY OLIGONUCLEOTIDE ARRAYS** the specification of which X was filed on June 25, 1997 as Application No. 08/882,649.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign applications(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119
PCT	PCT/US97/01603	22 January 1996	Yes <u>X</u> No <u> </u>
			Yes <u> </u> No <u> </u>

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below:

Application No.	Filing Date
60/010,471	1/23/96
and a continuation-in-part of provisional patent application for "Labeling of Nucleic Acids" naming Lockhart, Cronin, Lee, Tran, Matsuzaki, McGall and Barone as inventors, filed on January 9, 1997, both of which are herein incorporated by reference for all purposes	1/9/97

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date of Filing	Status
		<u> </u> Patented <u> </u> Pending <u> </u> Abandoned
		<u> </u> Patented <u> </u> Pending <u> </u> Abandoned

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Kevin L. Bastian, Reg. No. 34,774, M. Henry Heines, Reg. No. 28,219, Tom Hunter, Reg. No. 38,498, William M. Smith, Reg. No. 30,223, Eugenia Garrett-Wackowski, Reg. No. 37,330, Kenneth A. Weber, Reg. No. 31,677, Ellen Lauver Weber, Reg. No. 32,762, Joe Liebeschuetz, Reg. No. 37,505.

Send Correspondence to:

Tom Hunter, Esq.
TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, CA 94111-3834

Direct Telephone Calls to:

(Name, Reg. No., Telephone No.)

Name: Tom Hunter, Esq.

Reg. No.: 38,498

Telephone: (415) 576-0200

Full Name of Inventor 1	Last Name Lockhart	First Name David	Middle Name or Initial J.	
Residence & Citizenship	City Santa Clara	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 480 Oak Grove Drive, Apt. 205	City Santa Clara	State/Country California	Zip Code 95054
Full Name of Inventor 2	Last Name Chee	First Name Mark	Middle Name or Initial	
Residence & Citizenship	City Palo Alto	State/Foreign Country California	Country of Citizenship Australia	
Post Office Address	Post Office Address 3199 Waverly Street	City Palo Alto	State/Country California	Zip Code 94306
Full Name of Inventor 3	Last Name Gunderson	First Name Kevin	Middle Name or Initial	
Residence & Citizenship	City Palo Alto	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 1090 Tanland Dr., #103	City Palo Alto	State/Country California	Zip Code 94303-3749
Full Name of Inventor 4	Last Name Chaoqiang	First Name Lai	Middle Name or Initial	
Residence & Citizenship	City Santa Clara	State/Foreign Country California	Country of Citizenship China	
Post Office Address	Post Office Address 1901 Halford Avenue, #230	City Santa Clara	State/Country California	Zip Code 95051
Full Name of Inventor 5	Last Name Wodicka	First Name Lisa	Middle Name or Initial	
Residence & Citizenship	City Santa Clara	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 3770 Flora Vista, #603	City Santa Clara	State/Country California	Zip Code 95051
Full Name of Inventor 6	Last Name Cronin	First Name Maureen	Middle Name or Initial T.	
Residence & Citizenship	City Los Altos	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 771 Anderson Drive	City Los Altos	State/Country California	Zip Code 94024

Full Name of Inventor 7	Last Name Lee	First Name Danny	Middle Name or Initial	
Residence & Citizenship	City San Jose	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 5520 Le Franc Drive	City San Jose	State/Country California	Zip Code 95118
Full Name of Inventor 8	Last Name Tran	First Name Huu	Middle Name or Initial M.	
Residence & Citizenship	City San Jose	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 3697 Cape Cod Court, #1	City San Jose	State/Country California	Zip Code 95117
Full Name of Inventor 9	Last Name Matsuzaki	First Name Hajime	Middle Name or Initial	
Residence & Citizenship	City Palo Alto	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 562 Kendall Avenue, #26	City Palo Alto	State/Country California	Zip Code 94306
Full Name of Inventor 10	Last Name McGall	First Name Glenn	Middle Name or Initial H.	
Residence & Citizenship	City Mt. View	State/Foreign Country California	Country of Citizenship Canada	
Post Office Address	Post Office Address 750 North Shoreline	City Mt. View	State/Country California	Zip Code 94041
Full Name of Inventor 11	Last Name Barone	First Name Anthony	Middle Name or Initial D.	
Residence & Citizenship	City San Jose	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 2118 Ellen Avenue	City San Jose	State/Country California	Zip Code 95125

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1	Signature of Inventor 2	Signature of Inventor 3
David J. Lockhart	Mark Chee	Kevin Gunderson
Date	Date 3/29/02	Date
Signature of Inventor 4	Signature of Inventor 5	Signature of Inventor 6
Chaoqiang Lai	Lisa Wodicka	Maureen T. Cronin
Date	Date	Date
Signature of Inventor 7	Signature of Inventor 8	Signature of Inventor 9
Danny Lee	Huu M. Tran	Hajime Matsuzaki
Date	Date	Date
Signature of Inventor 10	Signature of Inventor 11	
Glenn H. McGall	Anthony D. Barone	
Date	Date	

151469

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **NUCLEIC ACID ABUNDANCE DIFFERENCE SCREENING USING HIGH DENSITY OLIGONUCLEOTIDE ARRAYS** the specification of which X was filed on June 25, 1997 as Application No. 08/882,649.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119
PCT	PCT/US97/01603	22 January 1996	Yes <u>X</u> No <u>_</u>
			Yes <u>_</u> No <u>_</u>

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below:

Application No.	Filing Date
60/010,471	1/23/96
and a continuation-in-part of provisional patent application for "Labeling of Nucleic Acids" naming Lockhart, Cronin, Lee, Tran, Matsuzaki, McGall and Barone as inventors, filed on January 9, 1997, both of which are herein incorporated by reference for all purposes	1/9/97

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date of Filing	Status
		<u>_</u> Patented <u>_</u> Pending <u>_</u> Abandoned
		<u>_</u> Patented <u>_</u> Pending <u>_</u> Abandoned

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Kevin L. Bastian, Reg. No. 34,774, M. Henry Heines, Reg. No. 28,219, Tom Hunter, Reg. No. 38,498, William M. Smith, Reg. No. 30,223, Eugenia Garrett-Wackowski, Reg. No. 37,330, Kenneth A. Weber, Reg. No. 31,677, Ellen Lauver Weber, Reg. No. 32,762, Joe Liebeschuetz, Reg. No. 37,505.

Send Correspondence to:

Tom Hunter, Esq.
TOWNSEND and TOWNSEND and CREW LLP
 Two Embarcadero Center, 8th Floor
 San Francisco, CA 94111-3834

Direct Telephone Calls to:

(Name, Reg. No., Telephone No.)

Name: Tom Hunter, Esq.

Reg. No.: 38,498

Telephone: (415) 576-0200

Full Name of Inventor 1	Last Name Lockhart	First Name David	Middle Name or Initial J.	
Residence & Citizenship	City <i>Mountain View</i> Santa Clara	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	610 Mountain View Ave. Post Office Address 480 Oak Grove Drive, Apt. 205	City <i>Mountain View</i> Santa Clara	State/Country California	Zip Code 95052 <i>94041</i>
Full Name of Inventor 2	Last Name Chee	First Name Mark	Middle Name or Initial	
Residence & Citizenship	City Palo Alto	State/Foreign Country California	Country of Citizenship Australia	
Post Office Address	Post Office Address 3199 Waverly Street	City Palo Alto	State/Country California	Zip Code 94306
Full Name of Inventor 3	Last Name Gunderson	First Name Kevin	Middle Name or Initial	
Residence & Citizenship	City Palo Alto <i>Santa Clara</i> ^{AF}	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address <i>1188 Inverness</i> 1090 Tanland Dr., #103 _{2A}	City Palo Alto	State/Country California	Zip Code <i>95050</i> 94303-3749 _{4E}
Full Name of Inventor 4	Last Name Chaoqiang	First Name Lai	Middle Name or Initial	
Residence & Citizenship	City Santa Clara <i>Sunnyvale</i>	State/Foreign Country California	Country of Citizenship China	
Post Office Address	Post Office Address <i>1066 Blazingwood Dr.</i> 1901 Halford Avenue, #230 _{C.L.}	City <i>Sunnyvale</i> ^{C.L.} Santa Clara	State/Country California	Zip Code <i>C.L.</i> 95051-74089
Full Name of Inventor 5	Last Name Wodicka	First Name Lisa	Middle Name or Initial	
Residence & Citizenship	City Santa Clara	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 3770 Flora Vista, #603	City Santa Clara	State/Country California	Zip Code 95051
Full Name of Inventor 6	Last Name Cronin	First Name Maureen	Middle Name or Initial T.	
Residence & Citizenship	City Los Altos	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 771 Anderson Drive	City Los Altos	State/Country California	Zip Code 94024

Full Name of Inventor 7	Last Name Lee	First Name Danny	Middle Name or Initial H.	
Residence & Citizenship	City San Jose	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 5520 Le Franc Drive S. Moore Dr.	City San Jose RTP	State/Country California NC	Zip Code 95118 27709
Full Name of Inventor 8	Last Name Tran	First Name Huu	Middle Name or Initial M.	
Residence & Citizenship	City San Jose Milpitas HMT	State/Foreign Country California	Country of Citizenship USA	
Post Office Address HMT	Post Office Address 1148 Edsall Dr. #3 3697 Cape Cod Court, #1 HMT	City San Jose Milpitas HMT	State/Country California	Zip Code HMT 95117 95035
Full Name of Inventor 9	Last Name Matsuzaki	First Name Hajime	Middle Name or Initial	
Residence & Citizenship	City Palo Alto	State/Foreign Country California	Country of Citizenship HMT USA Japan	
Post Office Address	Post Office Address 562 Kendall Avenue, #26	City Palo Alto	State/Country California	Zip Code 94306
Full Name of Inventor 10	Last Name McGall	First Name Glenn	Middle Name or Initial H.	
Residence & Citizenship	City Mt. View	State/Foreign Country California	Country of Citizenship Canada	
Post Office Address	Post Office Address 750 North Shoreline	City Mt. View	State/Country California	Zip Code 94041
Full Name of Inventor 11	Last Name Barone	First Name Anthony	Middle Name or Initial D.	
Residence & Citizenship	City San Jose	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 2118 Ellen Avenue	City San Jose	State/Country California	Zip Code 95125

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1 <i>David J. Lockhart</i> David J. Lockhart	Signature of Inventor 2 Mark Chee	Signature of Inventor 3 <i>Kevin Gunderson</i> Kevin Gunderson
Date 4/6/98	Date	Date 3/26/98
Signature of Inventor 4 <i>Chaoqiang Lai</i> Chaoqiang Lai	Signature of Inventor 5 <i>Lisa Wodicka</i> Lisa Wodicka	Signature of Inventor 6 Maureen T. Cronin
Date 4-10-98	Date 4/7/98	Date
Signature of Inventor 7 <i>Danny Lee</i> Danny Lee	Signature of Inventor 8 <i>Huu M. Tran</i> Huu M. Tran	Signature of Inventor 9 <i>Hajime Matsuzaki</i> Hajime Matsuzaki
Date 4/11/98	Date 4/3/98	Date 4-3-98
Signature of Inventor 10 <i>Glenn H. McGall</i> Glenn H. McGall	Signature of Inventor 11 <i>Anthony D. Barone</i> Anthony D. Barone	
Date 04/02/98	Date 4/06/98	

151469

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **NUCLEIC ACID ABUNDANCE DIFFERENCE SCREENING USING HIGH DENSITY OLIGONUCLEOTIDE ARRAYS** the specification of which X was filed on June 25, 1997 as Application No. 08/882,649.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119
PCT	PCT/US97/01603	22 January 1996	Yes <u>X</u> No <u> </u>
			Yes <u> </u> No <u> </u>

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

Application No.	Filing Date
60/010,471	1/23/96
and a continuation-in-part of provisional patent application for "Labeling of Nucleic Acids" naming Lockhart, Cronin, Lee, Tran, Matsuzaki, McGall and Barone as inventors, filed on January 9, 1997, both of which are herein incorporated by reference for all purposes	1/9/97

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date of Filing	Status
		<u> </u> Patented <u> </u> Pending <u> </u> Abandoned
		<u> </u> Patented <u> </u> Pending <u> </u> Abandoned

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Kevin L. Bastian, Reg. No. 34,774, M. Henry Heines, Reg. No. 28,219, Tom Hunter, Reg. No. 38,498, William M. Smith, Reg. No. 30,223, Eugenia Garrett-Wackowski, Reg. No. 37,330, Kenneth A. Weber, Reg. No. 31,677, Ellen Lauver Weber, Reg. No. 32,762, Joe Liebeschuetz, Reg. No. 37,505.

Send Correspondence to:

Tom Hunter, Esq.
TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, CA 94111-3834

Direct Telephone Calls to:

(Name, Reg. No., Telephone No.)
Name: Tom Hunter, Esq.
Reg. No.: 38,498
Telephone: (415) 576-0200

Full Name of Inventor 1	Last Name Lockhart	First Name David	Middle Name or Initial J.	
Residence & Citizenship	City Santa Clara	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 480 Oak Grove Drive, Apt. 205	City Santa Clara	State/Country California	Zip Code 95054
Full Name of Inventor 2	Last Name Chee	First Name Mark	Middle Name or Initial	
Residence & Citizenship	City Palo Alto	State/Foreign Country California	Country of Citizenship Australia	
Post Office Address	Post Office Address 3199 Waverly Street	City Palo Alto	State/Country California	Zip Code 94306
Full Name of Inventor 3	Last Name Gunderson	First Name Kevin	Middle Name or Initial	
Residence & Citizenship	City Palo Alto	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 1090 Tanland Dr., #103	City Palo Alto	State/Country California	Zip Code 94303-3749
Full Name of Inventor 4	Last Name Chaoqiang	First Name Lai	Middle Name or Initial	
Residence & Citizenship	City Santa Clara	State/Foreign Country California	Country of Citizenship China	
Post Office Address	Post Office Address 1901 Halford Avenue, #230	City Santa Clara	State/Country California	Zip Code 95051
Full Name of Inventor 5	Last Name Wodicka	First Name Lisa	Middle Name or Initial	
Residence & Citizenship	City Santa Clara	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 3770 Flora Vista, #603	City Santa Clara	State/Country California	Zip Code 95051
Full Name of Inventor 6	Last Name Cronin	First Name Maureen	Middle Name or Initial T.	
Residence & Citizenship	City Los Altos	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 771 Anderson Drive	City Los Altos	State/Country California	Zip Code 94024

Full Name of Inventor 7	Last Name Lee	First Name Danny	Middle Name or Initial	
Residence & Citizenship	City San Jose	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 5520 Le Franc Drive	City San Jose	State/Country California	Zip Code 95118
Full Name of Inventor 8	Last Name Tran	First Name Huu	Middle Name or Initial M.	
Residence & Citizenship	City San Jose	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 3697 Cape Cod Court, #1	City San Jose	State/Country California	Zip Code 95117
Full Name of Inventor 9	Last Name Matsuzaki	First Name Hajime	Middle Name or Initial	
Residence & Citizenship	City Palo Alto	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 562 Kendall Avenue, #26	City Palo Alto	State/Country California	Zip Code 94306
Full Name of Inventor 10	Last Name McGall	First Name Glenn	Middle Name or Initial H.	
Residence & Citizenship	City Mt. View	State/Foreign Country California	Country of Citizenship Canada	
Post Office Address	Post Office Address 750 North Shoreline	City Mt. View	State/Country California	Zip Code 94041
Full Name of Inventor 11	Last Name Barone	First Name Anthony	Middle Name or Initial D.	
Residence & Citizenship	City San Jose	State/Foreign Country California	Country of Citizenship USA	
Post Office Address	Post Office Address 2118 Ellen Avenue	City San Jose	State/Country California	Zip Code 95125

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1	Signature of Inventor 2	Signature of Inventor 3
David J. Lockhart	Mark Chee	Kevin Gunderson
Date	Date	Date
Signature of Inventor 4	Signature of Inventor 5	Signature of Inventor 6
Chaoqiang Lai	Lisa Wodicka	<i>Maureen T. Cronin</i> Maureen T. Cronin
Date	Date	Date <i>4/3/98</i>
Signature of Inventor 7	Signature of Inventor 8	Signature of Inventor 9
Danny Lee	Huu M. Tran	Hajime Matsuzaki
Date	Date	Date
Signature of Inventor 10	Signature of Inventor 11	
Glenn H. McGall	Anthony D. Barone	
Date	Date	

151469

ASSIGNMENT OF PATENT APPLICATIONS

WHEREAS, MARK CHEE, a citizen of the United States residing at 3199 Waverley Street, Palo Alto, California 94306, hereinafter referred to as "Assignor," is an inventor of the inventions described and set forth in the applications for United States Letters Patent identified in Exhibit A attached hereto and incorporated herein by reference; and

WHEREAS, AFFYMETRIX, INC., a California corporation, located at 3380 Central Expressway, Santa Clara, California 95051, hereinafter referred to as "Assignee," has agreed to accept, and Assignor has agreed to assign, Assignor's interest in the above-identified inventions and applications and in any Letters Patent and Registrations which may be granted on the same (collectively, the "Inventions and Applications").

FOR GOOD AND VALUABLE CONSIDERATION, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents does assign to Assignee all right, title and interest in and to the Inventions and Applications and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by applicable law. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

ASSIGNOR further agrees that he will, at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications, continuations-in-part and foreign counterparts on the invention, and (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer that are necessary to effectuate the purpose of this Assignment. If any part of this Assignment is found unenforceable, then all remaining provisions or part thereof shall remain in full force and effect.

IN TESTIMONY WHEREOF, Assignor executes this assignment this ____ day of July, 1998.

Mark Chee 7/21/98
Mark Chee

EXHIBIT A

Genetic Difference Screening and End Labeling of Nucleic Acids

08/882.649

~~6/25/97~~

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, David J. Lockhart, a citizen of the United States of America, residing at 480 Oak Grove Drive, Apt. 205, Santa Clara, CA 95054, and Mark Chee, a citizen of Australia, residing at 3199 Waverly Street, Palo Alto, CA 94306, and Kevin Gunderson, a citizen of the United States of America, residing at 1188 Inverness, Santa Clara, CA 95050, and Chaoqiang Lai, a citizen of China, residing at 1901 Halford Avenue #230, Santa Clara, CA 95051, and Lisa Wodicka, a citizen of the United States of America, residing at 3770 Flora Vista #603, Santa Clara, CA 95051, and Maureen T. Cronin, a citizen of the United States of America, residing at 771 Anderson Drive, Los Altos, CA 94024, and Danny Lee, a citizen of the United States of America, residing at 5520 Le Franc Drive, San Jose, CA 95118, and Huu M. Tran, a citizen of the United States of America, residing at 3697 Cape Cod Court, #1, San Jose, CA 95117, and Hajime Matsuzaki, a citizen of the United States of America, residing at 562 Kendall Avenue, #26, Palo Alto, CA 94306, and Glenn H. McGall, a citizen of Canada, residing at 750 North Shoreline Blvd., Mountain View, CA 94041, and Anthony D. Barone, a citizen of the United States of America, residing at 2118 Ellen Avenue, San Jose, CA 95125, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below identified application for United States Letters Patent:

Title of the Invention: NUCLEIC ACID ANALYSIS TECHNIQUES

Date(s) of execution of Declaration: _____

Filing date: June 25, 1997 Application No.: 08/882,649; and

WHEREAS, Affymetrix, Inc. a California corporation, located at 3380 Central Expressway, Santa Clara, CA 95051, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and in any Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs) and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Date: 4/6/98

David J. Lockhart

Date: _____

Date: 3/26/98

Date: 4/10/98

Date: 4/7/98

Date: _____

Date: 7/16/98

Date: 07/03/98

Date: 4-3-98

Date: 04/02/98

Date: 4/06/98

Mark Chee

Kevin Gunderson

Kevin Gunderson

Chaoqiang Lai

Chaoqiang Lai

Lisa Wodicka

Lisa Wodicka

Maureen T. Cronin

Danny Lee

Huu M. Tran

Huu M. Tran

Hajime Matsuzaki

Hajime Matsuzaki

Glenn H. McGall

Glenn H. McGall

Anthony D. Barone

Anthony D. Barone

I:\VOL\WORK\18547\019410\ASSIGN.JOI

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, David J. Lockhart, a citizen of the United States of America, residing at 480 Oak Grove Drive, Apt. 205, Santa Clara, CA 95054, and Mark Chee, a citizen of Australia, residing at 3199 Waverly Street, Palo Alto, CA 94306, and Kevin Gunderson, a citizen of the United States of America, residing at 1188 Inverness, Santa Clara, CA 95050, and Chaoqiang Lai, a citizen of China, residing at 1901 Halford Avenue #230, Santa Clara, CA 95051, and Lisa Wodicka, a citizen of the United States of America, residing at 3770 Flora Vista #603, Santa Clara, CA 95051, and Maureen T. Cronin, a citizen of the United States of America, residing at 771 Anderson Drive, Los Altos, CA 94024, and Danny Lee, a citizen of the United States of America, residing at 5520 Le Franc Drive, San Jose, CA 95118, and Huu M. Tran, a citizen of the United States of America, residing at 3697 Cape Cod Court, #1, San Jose, CA 95117, and Hajime Matsuzaki, a citizen of the United States of America, residing at 562 Kendall Avenue, #26, Palo Alto, CA 94306, and Glenn H. McGall, a citizen of Canada, residing at 750 North Shoreline Blvd., Mountain View, CA 94041, and Anthony D. Barone, a citizen of the United States of America, residing at 2118 Ellen Avenue, San Jose, CA 95125, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below identified application for United States Letters Patent:

Title of the Invention: NUCLEIC ACID ANALYSIS TECHNIQUES

Date(s) of execution of Declaration: _____

Filing date: June 25, 1997 Application No.: 08/882,649; and

WHEREAS, Affymetrix, Inc. a California corporation, located at 3380 Central Expressway, Santa Clara, CA 95051, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and in any Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs) and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Date: 4/6/98

David J. Lockhart
David J. Lockhart

Date: _____

Date: 3/26/98

Date: 4/10/98

Date: 4/7/98

Date: _____

Date: _____

Date: 07/03/98

Date: 4-3-98

Date: 04/02/98

Date: 4/06/98

Mark Chee

Kevin Gunderson

Kevin Gunderson

Chaoqiang Lai

Chaoqiang Lai

Lisa Wodicka

Lisa Wodicka

Maureen T. Cronin

Danny Lee

Huu M. Tran

Huu M. Tran

Hajime Matsuzaki

Hajime Matsuzaki

Glenn H. McGall

Glenn H. McGall

Anthony D. Barone

Anthony D. Barone

I:\JOL\WORK\18547\019410\ASSIGN.JOI

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, David J. Lockhart, a citizen of the United States of America, residing at 480 Oak Grove Drive, Apt. 205, Santa Clara, CA 95054, and Mark Chee, a citizen of Australia, residing at 3199 Waverly Street, Palo Alto, CA 94306, and Kevin Gunderson, a citizen of the United States of America, residing at 1090 Tanland Dr. 103, Palo Alto, CA 94303, and Chaoqiang Lai, a citizen of China, residing at 1901 Halford Avenue #230, Santa Clara, CA 95051, and Lisa Wodicka, a citizen of the United States of America, residing at 3770 Flora Vista #603, Santa Clara, CA 95051, and Maureen T. Cronin, a citizen of the United States of America, residing at 771 Anderson Drive, Los Altos, CA 94024, and Danny Lee, a citizen of the United States of America, residing at 5520 Le Franc Drive, San Jose, CA 95118, and Huu M. Tran, a citizen of the United States of America, residing at 3697 Cape Cod Court, #1, San Jose, CA 95117, and Hajime Matsuzaki, a citizen of the United States of America, residing at 562 Kendall Avenue, #26, Palo Alto, CA 94306, and Glem H. McGall, a citizen of Canada, residing at 750 North Shoreline Blvd., Mountain View, CA 94041, and Anthony D. Barone, a citizen of the United States of America, residing at 2118 Ellen Avenue, San Jose, CA 95125, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below identified application for United States Letters Patent:

Title of the Invention: NUCLEIC ACID ANALYSIS TECHNIQUES

Date(s) of execution of Declaration: _____

Filing date: June 25, 1997 Application No.: 08/882,649; and

WHEREAS, Affymetrix, Inc. a California corporation, located at 3380 Central Expressway, Santa Clara, CA 95051, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and in any Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs) and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Date: _____

David J. Lockhart

Date: _____

Mark Chee

Date: _____

Kevin Gunderson

Date: _____

Chaoqiang Lai

Date: _____

Lisa Wodicka

Date: 4/3/98

Maureen T. Cronin
Maureen T. Cronin

Date: _____

Danny Lee

Date: _____

Huu M. Tran

Date: _____

Hajime Matsuzaki

Date: _____

Glenn H. McGall

Date: _____

Anthony D. Barone

E:\VOL\WORK\18547\019410\ASSIGN.JOI